Claims 1-29 (cancelled previously)

Claims 30-49 (cancelled herewith)

50. (new) A measuring apparatus for measuring genetic sequence of electrically charged biopolymers by hybridization, said apparatus comprising:

a container that contains known biopolymer segments fixed onto an inner wall of said container and unknown bipolymer segments existing in a solution contained within said container, which are to be hybridized, said container being removable from said measuring apparatus; and

one or more electrodes disposed to be adjacent to said container for applying an electric field to said container, said one or more electrodes being electrically insulated from said container, and further being provided with protrusions formed at spatial positions corresponding to sites whereat gather a plurality of types of biopolymer segments within said container.

51.(new) The apparatus of claim 50, wherein conductive members are formed at spatial positions corresponding to said sites.

52.(new) The apparatus of claim 50, wherein said biopolymer segments are DNA, RNA, PNA, or electrically charged proteins.

53.(new) The apparatus of claim 50, wherein said container is made of a film, and said one or more electrodes are in mechanical contact with said container and are made of transparent film.

54.(new) The apparatus of claim 53, wherein said biopolymer segments are DNA, RNA, PNA or electrically charged proteins.

55.(new) The apparatus of claim 50, wherein said container

is made of a film.

56.(new) The apparatus of claim 50, wherein said one or more electrodes are in mechanical contact with said container.

57.(new) The apparatus of claim 50, wherein said one or more electrodes are transparent electrodes.

58.(new) The apparatus of claim 57, wherein said one or more electrodes are made of ITO film.

59. (new) A measuring apparatus for measuring genetic sequence of electrically charged biopolymers by hybridization, said apparatus comprising:

a container that contains known biopolymer segments fixed onto an inner wall of said container and unknown biopolymer segments existing in a solution contained within said container which are to be hybridized, said container being removable from said measuring apparatus;

one or more electrodes disposed to be adjacent to said container for applying an electrical field to said container, said one or more electrodes being electrically insulated from said container; and

means for altering direction of said electric filed so that wrongly hybridized segment pairs are separated; wherein

said one or more electrodes are provided with protrusions formed at spatial positions corresponding to sites whereat gather a plurality of types of biopolymer segments within said container.

60.(new) The apparatus of claim 59, wherein conductive members are formed at spatial positions corresponding to said sites.

61. (new) The apparatus of claim 59, wherein said biopolymer segments are DNA, RNA, PNA or electrically charged proteins.

62.(new) The apparatus of claim 59, wherein said container is made of a film; wherein conductive members are formed at spatial positions corresponding to said sites; and wherein said one or more electrodes are in mechanical contact with said container and are made of transparent film.

63.(new) The apparatus of claim 62, wherein said biopolymer segments are DNA, RNA, PNA or electrically charged proteins.

64.(new) The apparatus of claim 59, wherein said container is made of a film.

65.(new) The apparatus of claim 59, wherein said one or more electrodes are in mechanical contact with said container.

66.(new) The apparatus of claim 59, wherein said one or more electrodes are transparent electrodes.

67.(new) The apparatus of claim 59, wherein said one or more electrodes are made of an ITO film.